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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,934	04/06/2001	Keiji Okinaka	35.C15292	3603
5514	7590 11/08/2004		EXAMINER	
	CK CELLA HARPER	GRANT II, JEROME		
	30 ROCKEFELLER PLAZA NEW YORK, NY 10112		ART UNIT	PAPER NUMBER
, , , , , , , , , , , , , , , , , , , ,			2626	

DATE MAILED: 11/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)			
	09/826,934	OKINAKA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jerome Grant II	2626			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS , cause the application to become ABANI	by be timely filed 0) days will be considered timely. 5 from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>_</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL. 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-25 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers	•				
9)☐ The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by	the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		• • • • • • • • • • • • • • • • • • • •			
Priority under 35 U.S.C. § 119	diminor. Note the attached C	1100 / (Q O) O 101111 1 O-102.			
		10(1) (1) - 1 (0)			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document	s have been received. s have been received in Appl rity documents have been rec	lication No			
* See the attached detailed Office action for a list	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	ceived.			
	·	JERONÆ GRANT II PRIMÆRY EFFAMINER			
Attachment(s)	, .				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sum Paper No(s)/M	mary (PTO-413) ail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		mal Patent Application (PTO-152)			

Detailed Action

Rejections Under Section 112

1.

Claims 1-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a)

In claims 1 and 10, line 10, the claim refers to the number of dots. However, no specific number of dots have been previously specified in the claim.

b)

Claims 1 and 10 are unclear in that they recite the number of dots is equal in all gray levels in each of the blocks. There are 256 possible gray levels, does applicant really intend that in each box is an identical number of dots for all gray levels from 0-255?

C)

The third limitations in claims 1, 10, 22, 23, regarding the dot patterns states that" the dot patterns. are mutually the same. However, only one dot patterns was previously mentioned. Applicant has never before mentioned other than one dot pattern. Hence, the claim is confusing and there is no antecedent for plural patterns.

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d)

The last limitation in claims 1 and 10 refer to "the dots are increased while taking conformity of the dot patterns." It is not clear how the does are increasing. Are they increasing according to size or are they increasing according to density? It's unclear. Furthermore, the taking conformity is also unclear. Conforming to what? Does applicant contend that the dot will be apart of a dot pattern or will it increase to the size of the pattern?

e)

With respect to claim 3, 18, 24 and 25, these claims refer to "the dot patterns made mutually the same and the other blocks." This limitation is incomplete or idiosyncratic and cannot be understood. What other blocks are being discussed.

f)

Claims 4 refers to dot patterns being "preferential". Preferred with respect to what?

Dots increasing? How?

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2. Claims 1-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The limitation which states the dot patterns in the plural blocks are made mutually the same in all the gray levels does not have support in the written specification. Correction is required.

The specification does not recite with clarity what the repulsion potential is in conjunction with its relation to taking conformity of dot patterns.

Claims 2, 5, and 12 refer to "repulsion potentials" having to do with the conformity of dot patterns. It is not clear what this is ? Does it refer to error diffusion? Is the error in the pattern what makes it not conform to the desired pattern?

3. Pursuant to MPEP 702.01 the following rejection is made:

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin.

Claims 1-25 are rejected over Lin 6, 633, 412.

Lin is also directed toward a gray level reproduction method using a threshold matrix shown by figure 5. Lin also teaches a threshold matrix 52 shown by figure 4, including dots having predetermined values also shown by figure 4. Lin shows a boundary of blocks shown in figure 4. Lin teaches a matrix for repeatedly being used in the two-dimensionally directions and being periodical in a vertical and diagonal direction

The threshold matrix could be a rectangle as shown by figures 9 and 10, which is other than a square.

See the Background of the Invention of Lin, at col. 1, lines 45-50. See also col. 5, lines 14-25 of Lin regarding decomposed plural color components, R, G and B and print colors C, M, Y and K.

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4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 703-305-4391. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A Williams, can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEROME GRAMMER PRIMARY EXAMINER

J. Grañt l